

Recombinant Human KDM2A Protein (R567-S681), His tagged

Cat. No. KDM2A-0528H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human 6His-TEV-KDM2A(R567-S681) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	R567-S681
Description	Histone demethylase that specifically demethylates 'Lys-36' of histone H3, thereby playing a central role in histone code. Preferentially demethylates dimethylated H3 'Lys-36' residue while it has weak or no activity for mono- and tri-methylated H3 'Lys-36'. May also recognize and bind to some phosphorylated proteins and promote their ubiquitination and degradation. Required to maintain the heterochromatic state. Associates with centromeres and represses transcription of small non-coding RNAs that are encoded by the clusters of satellite repeats at the centromere. Required to sustain centromeric integrity and genomic stability, particularly during mitosis. Regulates circadian gene expression by repressing the transcriptional activator activity of CLOCK-ARNTL/BMAL1 heterodimer and RORA in a catalytically-independent manner.
Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein

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Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50mM Tris-HCl (pH 7.5), 200mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.
GENE INFORMATION	
Gene Name	KDM2A lysine (K)-specific demethylase 2A [Homo sapiens (human)]
Official Symbol	KDM2A
Synonyms	KDM2A; lysine (K)-specific demethylase 2A; F box and leucine rich repeat protein 11, FBXL11; lysine-specific demethylase 2A; CXXC8; DKFZP434M1735; F box protein FBL11; FBL7; FBL11; FLJ00115; JHDM1A; jumonji C domain containing histone demethylase 1A; KIAA1004; LILINA; F-box/LRR-repeat protein 11; CXXC-type zinc finger protein 8; [Histone-H3]-lysine-36 demethylase 1A; F-box and leucine-rich repeat protein 11; jumonji C domain-containing histone demethylase 1A; jmjC domain-containing histone demethylation protein 1A; FBXL11; FLJ46431; DKFZp434M1735;
Gene ID	22992
mRNA Refseq	NM_001256405

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Protein Refseq	NP_001243334
MIM	605657
UniProt ID	Q9Y2K7

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